

electronica 2026: Enabling the Technologies Behind Tomorrow's Applications

Röthenbach a. d. Pegnitz / Munich, October 2026 – Artificial intelligence, robotics, aerospace & defence systems, energy storage and electromobility are among the key drivers of technological innovation. While these markets differ in their requirements, they share a common need: reliable electronic components and interconnection solutions capable of delivering outstanding performance under increasingly demanding electrical, mechanical and environmental conditions.

At **electronica 2026**, **Diehl Metal Applications (DMA)** will showcase how its manufacturing technologies help enable the applications shaping tomorrow's world. From November 10 to 13, visitors to **Hall B2, Booth 434** will discover technologies ranging from precision stamped components and electrical interconnections to functional surface solutions and metal-plastic hybrid assemblies designed for demanding electronic applications.

Technologies Behind High-Growth Markets

The rapid expansion of AI infrastructure, advanced automation, defence and security technologies, electrified mobility and modern energy systems is creating new demands for component manufacturers. Across these markets, increased power densities, higher data processing requirements, ongoing miniaturization and growing expectations for reliability and performance under demanding operating conditions require innovative manufacturing approaches and highly specialized expertise.

At electronica 2026, Diehl Metal Applications will present solutions supporting six strategically important growth markets:

- **Aerospace & Space** – Light-weight precision components, functional surfaces and electrical interconnections for demanding aerospace and satellite electronics.
- **Defence** – High-precision metal components and specialized surfaces for sensing, infrared and RF applications.
- **Robotics & Automation** – Electrical contacts, interconnections and metal-plastic hybrid components for motion control, drives and intelligent machines.
- **Data Centers & Energy Infrastructure** – High-current connections, busbars and power electronics components supporting increasingly demanding electrical infrastructures.
- **Energy Storage** – Battery contacting and electrical connection solutions for stationary storage and energy management.
- **Automotive & E-Mobility** – High-performance components for electrification, power electronics and modern E/E architectures.

Using practical application examples, visitors will gain insights into how advanced manufacturing technologies contribute to performance, efficiency and reliability across a diverse range of industries.

Manufacturing Expertise Across the Value Chain

As electronic systems become increasingly complex, the integration of multiple manufacturing technologies becomes a key success factor. Diehl Metal Applications combines expertise in:

Precision Stamping & Forming | Functional & Selective Plating | Press-Fit Technology | Metal-Plastic Overmoulding

By combining these complementary manufacturing processes within an integrated production network, DMA supports customers from initial design and engineering through to high-volume series production. This approach enables the development of tailored solutions that meet demanding requirements for conductivity, thermal management, mechanical robustness and cost-efficient manufacturing.

From Manufacturing Technologies to Application Success

Whether for AI-driven data centers, autonomous machines, modern energy systems or electrified mobility, the success of tomorrow's technologies depends on components that perform reliably throughout their lifecycle.

At electronica 2026, Diehl Metal Applications will demonstrate how its manufacturing expertise helps transform innovative concepts into robust, scalable and market-ready solutions. The company's integrated technology portfolio supports customers in addressing complex challenges while accelerating the development of next-generation applications.

Visit Diehl Metal Applications at electronica 2026, Hall B2, Booth 434, and discover the technologies behind tomorrow's applications.

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About Diehl Metall:

Diehl Metall is a Corporate Division of the Diehl Group founded in 1902 (sales: 5.4 billion euros, employees: 19,449 in 2025) and has its headquarters in Röthenbach a.d. Pegnitz near Nuremberg. The company offers a broad spectrum of innovative products and technologies in the area of metal processing. In a global production network with locations in Europe, Asia, South America and the US, Diehl Metall develops application-oriented solutions for international customers.

The company assumes responsibility in the area of climate and resource protection, and places great value on recyclable alloys and composite materials. To fulfil this responsibility, Diehl Metall relies on technically optimized production processes and directs its innovation activities toward future trends.